

## Method for Designing Polarization Maintaining Couplers

### ABSTRACT

Techniques for designing, configuring or manufacturing polarization maintaining couplers (e.g. fiber arrays or splitters) are disclosed. According to one embodiment, a pair of polarization maintaining couplers are designed by a method including forming V-shaped troughs in two platforms (e.g. silicon based); placing two fibers respectively in the troughs so that both of the platforms can be closed up as a whole part; and obtaining the pair of the polarization maintaining couplers by a precision cut of the whole part somewhere in the middle thereof.